670.5 v.77-78

2 Sections—Section 2—October 1, 1928

Twelve Months Index to Volumes 77-78, October, 1927 — September, 1928

INDIA RUBBER WORLD

FEDERATED BUSINESS PUBLICATIONS, INC.
420 Lexington Avenue, New York, N. Y.

Volumes LXXVII-LXXVIII — October, 1927, to September, 1928

PAGES

A

ABBOTT, FRANZ D.—
Compression Flexometer ..... S 65
Abnormal Tire Wear..... Ma 55
Abolition of Rubber Restriction
G. E. Perry My 53
Abstract of Recent Articles...O 28, N 80, D 77, Ja 81, F 82, Ma 81, Ap 84, My 78, Je 80, Jl 81, Au 79, S 79

ACCELERATORS—
A-32 ..... Au 74
Aero-X ..... Ap 76

MINERAL—
Lead Compounds and Magnesia
Webster Norris Au 55, S 71
Pip-Pip ..... Au 114
Some, Characteristics as Revealed by Coefficients of Vulcanization
A. F. Hardman and Frank L. White O 18
Accident Course for New York University N 67
Acetaldehyde ..... F 76
Acid Cure Solution..... S 74
Fatty, on Vulcanization
G. Stafford Whitby and B. A. Evans J 173
Stearic and Red Oil Standards..... N 112
Acidseal Paints ..... S 66
Acre Yields, Forecast 1,200-pounds..... Je 83
Aero-X ..... Ap 76
African Rubber ..... Ap 100
Age-Rite White ..... Au 114
Aging of Stretched Rubber...*Arthur Kelly, Bert S. Taylor and Webster N. Jones* Jl 72
Rubber, by Certain Metallic Salts
Bert S. Taylor and Webster N. Jones Ap 75
Waxing to Retard..... N 73
Air Mail, United States and Mexico.... F 92
Airplane Show ..... Je 83
Almeidina Gum ..... Ma 75
Amazon Valley, The Ford Rubber Concession in the..... D 56
Shipments ..... O 51
Amazonian Workers Available..... F 116
America, Rubber Industry in...O 31, N 84, D 84, Ja 86, F 89, Ma 87, Ap 89, My 83, Je 87, Jl 85, Au 85, S 85

AMERICAN—
CHEMICAL SOCIETY—
Parr, S. W., Heads..... F 76
Rubber Division Meetings.....O 14, Ma 75, My 69, Jl 74
Abstracts of Papers....O 14, My 69
Akron Division ..... Ma 89
Group Meeting, First..... F 75
Rubber Mixing Practice, A Symposium ..... Je 63
Boston Group.....Ap 58, Je 65
Los Angeles Group..... Je 92
New York Group....Ja 70, F 75, Ap 68
Pacific Coast Section Formed..... F 94
Physical Testing Committee, Progress Report of ..... Ja 71
Report ..... S 74

AMERICAN—
CHEMICAL SOCIETY—
September Meeting.....Au 74, 87
Swampscott Meeting Program..... S 114
Institute of Chemical Engineers..... Ja 60
Planting Companies ..... S 57
Rubber Technologists O 17, N 71, D 69, Ja 69, Ma 76, My 73, Je 79, Jl 71, Au 75, S 75
Canadian Group ..... Ap 77

SOCIETY FOR TESTING MATERIALS—
Annual Meeting.....Je 89, Jl 78
Committee D-13 Meets in Atlanta.. D 100
Meetings ..... Ap 90
Rubber and Textiles in the..... Ma 68
Mechanical Engineers, Meeting of.. My 72
Ampar Balloon Tires..... Ja 65
Analysis of Reclaim Tonnage..... My 60
Annual Safety Congress..... Ap 120
Antifreeze Enemies of Rubber..... D 83

ANTI-OXIDANTS—
Grasselerager "A" ..... Jl 122
in Cold Proofing..... N 112
Tires ..... Jl 74
Neozone—New Anti-Oxidant ..... O 6
New, A ..... N 107
Rubberware Coating..... Ja 112
Surfacing ..... Ma 94
Army Gas Mask, Rubber and the
Maj. Gen. Amos A. Fries Ma 67
Hip Boots, Bids on..... F 96
Asbestos Brake Linings, The Physical Testing of.....*Carl F. Ogren* N 59

ASHMAN, A. O., AND C. F. HOMEWOOD—
Instrument for Recording Temperatures in Mills and Calenders..... Ja 59
Australia ..... N 98
Austria, Rubber Trade in.....N 98, D 94
Automobile Casings Shipped from U. S. During 1926 and 1927..... Ma 94
Registration ..... Ja 88
Seats, Shock Insulated..... Je 73
Show, National ..... F 73
Autos for All in Next Four Years..... N 86

B

Balata Horseshoe Treads..... Ja 55
World Supply of..... Jl 78
Balloon Aids Research..... O 35
Pilot, Reaches Record Altitude..... D 64
Tires, see Tires
Balls, Making Rubber..... O 7
Barbour Black ..... Ja 64
Barcelona Exhibition ..... Jl 122
Bases, Physical, of Tire Cord Properties
H. P. Gurney and E. H. Davis Ma 53, Ap 63
BATCHELOR, HAROLD W.—
Clamp for Rubber Tubing, A..... Je 78
Bead Covering and Flipping, Tire..... Jl 63

BEAVER, D. J., AND T. P. KELLER—
Effect of Carbon Black on Compounds. S 73
Belgium, Rubber Trade in..... F 98
Belt, Rubber Transmission..... O 35
Belting, Rubber Supplanting Leather... Au 104
Benzol from Petroleum..... Ap 73
Prohibited in Jersey..... Ap 56
Bicknell, J. W.....*Portrait and Sketch* Je 89
Biguanides, Certain Aryl-Substituted
G. B. L. Smith and A. J. Weiss Ap 75
Bill, Edward Lyman, Inc., Annual Dinner
Portrait Ja 84

BISHOP, W. S., A. R. KEMP AND T. J. LACKNER—
Direct Determination of Rubber..... Jl 72

BLACK PIGMENTS—
Rubber Compounding Practice
Webster Norris Ma 65
Board, Rubber Veneer..... Jl 55
Boats, Molded Rubber Composition..... Ma 62
Rubber, of Ancient Vintage, A..... N 112
Motor ..... Ap 92

BOOK REVIEWS—
"Allen's Commercial Organic Analysis" Ma 80
"American Rubber Industry and Its Scientific Research Work, The"..... N 79
"A. S. T. M. Standards, 1927"..... Ja 81
"Tentative Standards—1927"..... D 77
"Annual Report and Year Book, 1926-1927" (Malayan)..... N 79
"Survey of American Chemistry".... Ja 81
"Automobilereifen" ..... N 79
"Bibliography on Rubber Technology, June 1926-December 1927" ..... Au 79
"Bureau of Standards Journal of Research" ..... S 79
"Chemical Encyclopaedia"
C. T. Kingzett Jl 80
"Engineering Catalog" ..... N 79
"Colloidal Chemistry of the Rubber Industry, The".....*E. A. Hauser* Au 79
"Das Wasserdichmachen von Textitien" ("Waterproofing Textile Fabrics").. My 77
"Density and Electrical Properties of the System, Rubber-Sulphur," Part I. N 79
"Die Welt der Vernachlassigten Dimensionen" ..... O 29
"Directory of Commercial Testing and College Research Laboratories"..... Ma 80
"Diseases and Pests of *Hevea Brasiliensis* in the Netherlands Indies"..... D 77
"Elimination of Waste, Simplified Practice—Automobile Brake Lining".... My 77
"Experimental Tapping of Hevea Rubber Trees at Bayeux, Haiti, 1924-25".... Je 80
"Facts Affecting the Importation of Rubber Sundries and Specialties Throughout the World" ..... N 79
"Facts Affecting the Importation of Rubber Tires and Tubes Throughout the World" ..... Jl 80
"Gummi-Kalender, 1928, The"
Dr. Ernst A. Hauser and Dr. Kurt Maier Ma 80

Ja=Jan.; F=Feb.; Ma=March; Ap=April; My=May; Je=June; Jl=July; Au=August; S=Sept.; O=Oct.; N=Nov.; D=Dec.

DETROIT PUBLIC LIBRARY

PAGES

BOOK REVIEWS—
"Investigations at the Imperial Institute on Samples of Plantation Para Rubber from Ceylon" ..... Ma 80
"La Linoxyne et le Linoleum" *A. D. Luttringer* Jl 80
"Latex-Sein Vorkommen, seine Gewinnung, Eigenschaften, sowie technische Verwendung" ..... O 29
"Marketing of Crude Rubber"..... Ma 80
"Modern Roadmaking" *Harold Bradley and C. C. Hancock* Au 79
"Proceedings of the Thirtieth Annual Meeting—A. S. T. M."..... Ma 80
"Pyroxylin Enamels and Lacquers"... Ja 81
"Representative Industries in the United States" ..... Je 80
"Rubber Chemistry and Technology".. My 77
"Producing Companies—1927" ..... Ja 81
"Safety Code for Rubber Mills and Calenders" ..... N 79
"VIIe. Exposition Internationale du Caoutchouc et Autres Produits Tropicaux" *Sir Wyndham Dunstan, K. C. M. G., F. R. S., and Prof. E. M. Perrot, Dr.-es-Sciences* D 77
"Some Vulcanization Tests of Guayule" D 77
"Standards in Industry"..... Jl 80
"Yearbook—1928" ..... Jl 80
"Testing of Rubber Goods, The"..... Ja 81
"U. S. Government Master Specifications for Rubber Boots"..... D 77
"Use and Care of Automobile Tires".. Ja 81
"Vanderbilt Note Book"..... O 29
"Year Book of The National Association of Cotton Manufacturers, 1927"..... D 77
Boring Mills, Small..... F 120
Botanic Garden Honors Our Editor..... My 89
Bottle Holder Has Caps..... Ap 91
Brake Linings, The Physical Testing of Asbestos.....*Carl F. Ogren* N 59
Brawley, W. H.....*Portrait and Sketch* O 35
Brazilian Washed Rubber.....My 96
Brazil's Rubber Come-Back..... Ap 58
Bremen Flier Sticks to His Boots..... Je 83

BRIDGWATER, ERNEST R.—
Rubber Physical Testing..... Ma 57
British Discarded Restriction, Why..... Au 64

BROWN, R. W.—
Measuring Riding Qualities..... Ap 57

BROWN, R. W., AND ERLE C. ZIMMERMAN—
Rubber Hardness Tester..... Ma 74
Brown Bast, Discovery Concerning..... S 104
Bureau of Standards New Grouping..... N 61
Tests ..... My 85
Bus Seat, Shock Insulates..... O 9
Tire Maintenance ..... Ja 64
Wheelbase and Tires..... Jl 77
Buses Getting Numerous..... F 116
Button, A Rubber Safety..... Jl 105

C

Calendar ..... Ja 82
Calenders and Mills, Instrument for Recording Temperatures in *A. O. Ashman and C. F. Homewood* Ja 59
Recording Roll Heat of..*C. E. Maynard* S 62
Camber Going Out..... F 94
Camera, Photomicrographic ..... S 84
Canada, Reclaim Used in..... N 94
Rubber Trade in.....O 38, N 92, D 92, Ja 94, F 96, Ma 93, Ap 96, My 90, Je 93, Jl 93, Au 93, S 93
Canadian Rubber Investments, Americans' Au 67
Technologists ..... Ap 77

CARBON BLACK—
Control ..... D 60
Effect of, on Compounds *D. J. Beaver and T. P. Keller* S 73
from Albertite ..... F 76
Gastex ..... Je 105
in 1927 ..... Jl 105
Process, New ..... Ja 67
Rubber Compounding Practice *Webster Norris* D 53, Ma 65
Separating Grit from..... O 56
Texas' Output Mounts..... Je 96
Variation of Color in....*C. R. Johnson* F 65

PAGES
Carpets, Rubber ..... Jl 55
Cars, Rubber Tired, for Street Railways. Ja 56

CARTLIDGE, R. E., AND H. L. SNYDER—
Effect of Sulphur Vulcanizing Reclaim Ma 73
Cases, Veneer .....N 95, Jl 92
Castilla, Grafting Hevea on..... Jl 65

CASTRICUM, MARTIN—
Fillerless Cord Fabric..... Ap 55
Celite in Rubber Compounds..... O 60
Cement Churn, German..... Ma 104
Rubber, Avoid Overmilled..... O 56
Cementing Rubber Insoles..... Ap 62
Ceylon Rubber Grades, Variability of.... N 73
Rubber Trade in.....O 43, N 100, D 95, F 100, Ma 97, Ap 99, My 95, Au 97, S 97
Chamberlin Consultant for U. S. Rubber Co. ..... Ap 92
Chemical Equipment, Rubber Covered... Ja 72
Exposition ..... N 69
Patents .....O 20, N 74, D 72, Ja 72, F 76, Ma 100, Ap 102, My 98, Je 102, Jl 100, Au 100, S 100
Unsaturation of Rubber Vulcanized with Polynitro Compounds and Benzoyl Peroxide..*Harry L. Fisher and A. E. Gray* My 72
Chemist, Outlook of the Rubber..... O 13
Chemistry.....O 18, N 72, D 70, Ja 70, F 75, Ma 73, Ap 75, My 71, Je 77, Jl 72, Au 73, S 73
Dr. E. A. Hauser's Course in Applied Colloid ..... Au 68
Hauser Colloidal Course..... My 72
Chrome Finished Molds..... Ja 107
Cigar Lighter ..... S 104
Clamp for Rubber Tubing, A *Harold W. Batchelor* Je 78

CLAYS—
Rubber Compounding Practice *Webster Norris* Ja 57
Cleaning Hydraulic Press Plates..... N 58
Clincher Rims Are Passing..... Ap 67
Clinchers and Metric Sizes, Foreign..... Ja 84
Coagulant, Sodium Silico Fluoride..... Ma 75
Collecting and Milling Native Rubber, Modern Method of..... My 67
Colloid Chemistry of Rubber..... Au 74

COLORS—
Mineral, Rubber Compounding Practice *Webster Norris* My 55
Organic, Rubber Compounding Ingredients *Webster Norris* Je 57
Variation of, in Carbon Black *C. R. Johnson* F 65
Compounding, Dispersive Effect of Reclaim in ..... N 72
Ingredients Hemoglobin a..... S 74
Market...O 55, N 111, D 109, Ja 111, F 115, Ma 111, Ap 115, My 113, Je 115, Jl 115, Au 113, S 113
Materials Used in the Rubber Industry, Their Classification and Health Hazards *L. J. Healy* N 73
Practice, Rubber *Webster Norris* O 1, N 55, D 53, Ja 57, F 58, Ma 65, Ap 59, My 55, Je 57
Compounds, Celite in Rubber..... O 60
Self Vulcanizing ..... Ja 71
Compression, Flexometer..*Franz D. Abbott* S 65
Connecticut Rubber Trade..... N 88
Connors, J. H.....*Portrait and Sketch* Ja 87
Continuous Tunnel Kiln Vulcanizer..... My 66
Control, Unique Duplex Curing..... Au 91
Conversion of Rubber into Thermoplastic Products.....*Harry L. Fisher* Ja 70
Cook, C. E.....*Portrait and Sketch* Je 87
Copper Compounds, Latex Contaminated with, as a Source of Fire *J. G. Fol and W. de Visser* My 71

CORD—
Fabric, Fillerless....*Martin Castricum* Ap 55
Impregnating Limits ..... Je 56
Properties, Physical Bases of Tire *H. P. Gurney and E. H. Davis* Ma 53, Ap 63
Sets, All-Rubber ..... Je 93
Sub-Standard Lamp ..... Ap 68
Tires, see Tires
Cost of a Weak Policy..... O 8
Cotton Market and Other Fabrics....O 57, N 115, D 113, Ja 115, F 119, Ma 115, Ap 119, My 117, Je 119, Jl 119, Au 117, S 117
Outlook....O 59, N 116, D 114, Ja 116, F 120
Southwest, Futures Higher..... Je 95

PAGES
Cranor, D. F.....*Portrait* F 75
Crayons, Paramark ..... Ap 85

CROAKMAN, E. G., AND H. A. WINKELMANN—
Pigment Reenforcement of Reclaim... Ma 73

CRUDE RUBBER—
Brought to Los Angeles, Large Shipment of ..... F 103
Market....O 50, N 104, D 102, Ja 104, F 108, Ma 105, Ap 109, My 107, Je 109, Jl 109, Au 107, S 107
Neither Dearth nor Dearness..... Je 62
Price Insurance ..... Jl 66
Cuba, New Factory for..... Ja 84
Curing and Proofing, Simultaneous..... F 76
Clay Blown Tires, Equipment for..... D 65
Control, Unique Duplex..... Au 91
Czecho-Slovakia, Rubber Trade in....Ja 96, Ap 98, Au 96

D

Dater, Time Recording..... My 70

DAVIS, E. H., AND H. P. GURNEY—
Physical Bases of Tire Cord Properties Ma 53, Ap 63
DeLaski & Thropp-Murray Tire Suit.... N 87

DEVISSER, W., AND J. G. FOL—
Latex Contaminated with Copper Compounds as a Source of Fire..... My 71
Dealers' Stocks April 1, 1928, Preliminary Report of ..... My 104
of Automobile Tires..... Je 70
as of Oct. 1, 1927..... D 67
Degras—Rubber Softener ..... O 4
Denmark, Rubber Trade in..... Ja 96
Designs.....O 47, N 102, D 99, Ja 102, F 103, Ma 103, Ap 104, My 102, Je 105, Jl 104, Au 103, S 104
Dinsmore, R. P.....*Portrait* F 75
Dispersed Rubber, New Developments with *H. A. Winkelmann* Jl 53
Dispersive Effect of Reclaim in Compounding ..... N 72
Dispersol ..... O 20
Dividends, Rubber Company...O 30, N 83, D 83, Ja 85, F 87, Ma 85, Ap 87, My 82, Jl 84, Au 84, S 84
Djambi Town..... Je 105
Dornseif, Albert J..*Portrait and Sketch* Ja 88
Drinking Water Systems for Rubber Mills Au 65, S 67
Drums, Wide Open..... My 103
Dunlop Leads in Japan..... Ap 68
Rubber Merger ..... My 79
Dunn, J. C.....*Portrait and Sketch* My 86
duPont Laboratories ..... Ja 61
Dutch Rubber, Regulation of, Planned... S 96
Selling Pool ..... Ap 96
Dyes, Seeking Changeless Organic..... Ma 102

E

East Coast Sumatra..... Au 103
Rubber Trade in the...D 87, Ja 90, F 92, Ma 91, Ap 93, My 87, Je 90, Jl 89, Au 90, S 89
Edison Asks Brazil for Rubber Seeds..... N 83
Congress Honors ..... Jl 78
Laboratory, Museum Gets..... Au 90

EDITORIALS—
Another Worry for Technologists..... S 70
Are Planters Downhearted?..... Je 76
Basis of Tire Prosperity..... Au 72
Because Some Regenerators Give Buyers ..... Au 72
British Firm Has Patented Rubber Catgut, A ..... O 16
Brakes in Effective Condition..... Je 76
Car Engineers and Tires..... F 74
Cellulose Silk for Tires..... Ma 72
Confirming the Rubber Agency..... F 74
Cost of Producing Rubber..... Au 72
Damping Din of Subways..... Ja 68
Filipinos Make Haste Slowly..... S 70
Greeting the Rubber Institute..... Jl 70
Group Insurance for Employes..... S 70
Gutta Percha from Rubber..... Ap 74
Hand-to-Mouth Buying ..... O 16
Insuring Best Grafting Yield..... My 68
Is Rubber Dominance Passing?..... D 68

Ja=Jan.; F=Feb.; Ma=March; Ap=April; My=May; Je=June; Jl=July; Au=August; S=Sept.; O=Oct.; N=Nov.; D=Dec.

PAGES

—
Ill Wind..... Ja 68
ng Hand-to-Mouth Buying..... N 70
x Waterproofed Paper ..... Ma 72
aying the Synthetic Ghost..... Ja 68
Merging vs. Anti-Trust Laws..... Jl 70
Modern Factory Equipment..... O 16
New Year's Greetings..... Ja 68
Our Front Cover..... O 16
Pessimism Regarding Bud Grafting... D 68
Pneumatic Tires Imported into Great Britain ..... S 70
Production Cost Drifts Downward... Ma 72
Prospects for Cheaper Tires..... My 68
Question of Fair Mileage, A..... D 68
Reaction in Foreign Loans..... Ap 74
Reasons for American Prosperity..... N 70
Rebirth of Guayule, The..... Jl 70
Reduce Corporation Income Tax..... Ap 74
Restriction and Pooling Rejected..... My 68
Rewards for Useful Ideas..... N 70
Rubber for Reproductions of the Body. Ap 74
Geneva Conference, A..... O 16
to Rout Rioters..... N 70
Service Beyond Requirements..... Ma 72
Settling Labor Disputes Amicably..... S 70
Smashing Rubber Like Glass..... Ma 72
Sponge Rubber Balls..... F 74
Technicians as an Investment..... F 74
Trial Order Trickery..... Je 76
Vulcanizing Gutta Percha..... Ma 72
When Rubber Stabilizers Clash..... Ap 74
Why Sole Tire Distributers Are Few.. Je 76
X-Rays for Rubber Plants..... D 68
Edmore Power Demand Limitator..... D 82
Educational Rubber Experiment..... My 62
Eight Hour Law for Women..... D 86
Electric Attachment, Useful..... Ma 103
Elevator, Automatic Rotary, for Rubber Mill ..... Ja 62
Engineering Courses, Evening..... S 89
Engineer's Opportunity, The..... N 68
Engraved Color Printing Rolls..... Ap 72
Equipment for Curing Clay Blown Tires. D 65
Estate, Rubber, Economy..... Au 58
Euphorbia Coagulum ..... Au 103
Europe, Rubber Trade in....O 41, N 96, D 93, Ja 95, F 97, Ma 95, Ap 97, My 93, Je 97, Jl 94, Au 95, S 95

EVANS, B. A., AND G. STAFFORD WHITBY—
Fatty Acids on Vulcanization..... Jl 73
Exports, Our Chief in 1927..... My 104
Rubber Goods, Holding up..... Au 80

F

FABRICS—
Dyed, Action of Light on..... Jl 74
Fillerless Cord.....*Martin Castricum* Ap 55
Guider, Pneumatic ..... Ap 69
Odd Result in Gas Proofing..... Au 109
Pile, with Rubber Backing..... D 85
Rubberized Multi-ply ..... My 54

FACTICE—
from Rubber Seed Oil..... Ap 66
in Tubes and Footwear..... N 68
Packages Standardized ..... Ma 56
Far East, The Rubber Industry in...O 43, N 99, D 95, Ja 98, F 99, Ma 97, Ap 99, My 95, Je 99, Jl 97, Au 97, S 97
Farmers Should Consider Non-Food Crops Au 122
Farrel-Birmingham Amalgamation ..... O 21
Feeds for Centerless Grinders..... Au 67
Felt Under Rubber Flooring..... Jl 69
Fiber Reinforcement of Rubber..... Au 63
Fig Rubber and Its Proponent..... D 110
Fillerless Cord Fabric *Martin Castricum* Ap 55
Filter Press Plates, Rubber..... Ma 64
Financial and Corporate News...O 30, N 83, D 83, Ja 85, F 87, Ma 85, Ap 87, My 82, Je 86, Jl 84, Au 84, S 83
Financing, Public.....*A. S. Hopkins* S 110
Fine Art of Rubber Tapping, The..... Ap 71
Fire, Freezing ..... S 84
Latex Contaminated with Copper Compounds as a Source of *J. G. Fol and W. deVisser* My 71

PAGES
Firestone Tire & Rubber Co., The Plant in Los Angeles ..... My 89
Fish Dons Rubber Collar..... My 118

FISHER, HARRY L.—
Conversion of Rubber into Thermoplastic Products ..... Ja 70

FISHER, HARRY L., AND A. E. GRAY—
Chemical Unsaturation of Rubbers Vulcanized with Polynitro Compounds and Benzoyl Peroxide ..... My 72
Fisk Has Record Safety Year..... Ma 112
Five Years of Restriction.....*E. G. Holt* F 55
Flap Punch, Mohawk..... Jl 104
Flexometer, Compression..*Franz D. Abbott* S 65
Flooring, Rubber, Felt Under..... Jl 69
Sprayed for ..... F 111
Floors, Rubber, Famous Hotels..... F 64
Flowers, Rubber, in the Movies..... S 122
Folies Bergère, Paris, Rubber at..... Au 118

FOL, J. G., AND W. DE VISSER—
Latex Contaminated with Copper Compounds as a Source of Fire..... My 71

FOOTWEAR—
and Tubes, Factice in..... N 68
Exports Gain ..... S 122
from Old Tires..... Je 78
Galoshes, Correct Fasteners for..... Jl 88
Insoles, Cementing Rubber..... Ap 62
Machine for Cutting Shoe Foxing..... D 114
Making, Progress in..... N 62
Overshoe, Ornamental ..... D 89
Rubber, for Hindus..... My 90
Rubbers, Transparent, Spot Shoes.... My 62
Sole, Essex-Wearite ..... Au 93
Tennis Line, The Nineteen Twenty-Eight Ja 79
Shoes, Exports of..... N 92
Ford Company Finds Many Uses for Rubber ..... Au 81
Formed to Grow Rubber in Brazil... N 89
Firestone Jest a Reality..... O 3
Rubber Concession in the Amazon Valley, The ..... D 56
Steamship off to Brazil..... Au 103
Ford's Plans Not Affected by Restriction Repeal ..... My 102

FOREIGN—
Service, To Expedite..... O 6
Trade Circulars.....O 48, N 95, D 79, Ja 80, F 88, Ma 86, Ap 81, My 78, Je 95, Jl 79, Au 94, S 82
Information...O 48, N 95, D 79, Ja 80, F 88, Ma 86, Ap 81, My 78, Je 95, Jl 79, Au 94, S 82
France, Rubber Trade in..... My 94
Freezing Fire ..... S 84
French Cameroon ..... Au 96
Guiana ..... Je 100
West Africa ..... Au 98

FRIES (MAJ. GEN.), AMOS A.—
Rubber and the Army Gas Mask..... Ma 67
Fringe, Rubber ..... Je 93
Fuels Meeting, First National..... O 48
Fumonex ..... Au 93

G

Gage, Bus Tire..... D 88
Garment Makers Discourage Proofers... Ma 89

GARTHWAITE, A. A.—
Rubber Situation, The..... Ap 70
Gas in Warfare, Champions..... F 83
Gasoline Consumption ..... Ap 92
Poor Roads Increase..... Je 96
Gastex ..... Je 105
Germany Prohibits Use of Solid Tires.. My 70
Rubber Trade in....O 42, N 97, D 94, Ja 97, F 98, Ma 96, Ap 98, My 94, Je 98, Jl 96, Au 96, S 96
Ghosts, Rubber, Awe at Seances..... Ap 116
Gibbons, W. A.....*Portrait* F 75
Glazed Rubber Molds..... My 114

GLUE—
Rubber Compounding Practice *Webster Norris* F 58
Goggles for Industrial Employes..... N 77
Goldenrod Seed Promises Rubber..... Jl 89

PAGES
Golf Ball Conference..... D 106
Gutta Percha vs. Rubber Core..... N 97
Luminous for Night..... D 87
Goodrich's, Pacific, Gala Opening..... Je 74
Goodyear Plant 98 Per Cent American... N 94
Goodyear's House ..... D 83
Grade Crossing Menace..... Jl 78
Grafting Hevea on Castilla..... Jl 65
Grained Rubber ..... My 54
Grand Central Palace to Have Permanent Exhibits ..... Je 86
Grasselerager "A" ..... Jl 122

GRAY, A. E., AND HARRY L. FISHER—
Chemical Unsaturation of Rubbers Vulcanized with Polynitro Compounds and Benzoyl Peroxide ..... My 72

GRAY, HAROLD—
Protective Paint from Rubber..... Ap 76
Great Britain, Rubber Trade in.....O 41, N 96, D 93, Ja 95, F 97, Ma 95, Ap 97, My 93, Je 97, Jl 94, Au 95, S 95
Greetings, Calendars and Souvenirs..... F 82
Grinders, Feeds for Centerless..... Au 67
Guayule and Rubber Imports..... My 104
in California Botanic Garden..... Jl 90
Rubber a Home Industry *Vincent Sauchelli* Je 55
Guider, Pneumatic Fabric..... Ap 69
Gum, Almeidina ..... Ma 75
Embossed Effects with Sheet..... Au 114

GURNEY, H. P., AND E. H. DAVIS—
Physical Bases of Tire Cord Properties Ma 53, Ap 63

H

Hadfield, John.....*Portrait and Sketch* O 31
Hainan, Rubber in..... My 120
Hard Rubber Acid Pump..... Au 81
Influence of the Sulphur-Rubber Ratio on the Physical Properties of *David E. Pearsall* D 70

HARDMAN, A. F., AND FRANK L. WHITE—
Some Accelerator Characteristics as Revealed by Coefficients of Vulcanization O 18
Hardness Tester, Rubber *Erle C. Zimmerman and R. W. Brown* Ma 74

HARRIS, EMMET—
Kabacan—The Heart of Mindanao..... Je 61
Hauser Colloidal Chemistry Course *Portrait* My 72
Hauser's, Dr. E. A., Course in Applied Colloid Chemistry .....Au 68
Hawley, R. C.....*Portrait* Ap 95

HEALY, L. J.—
Compounding Materials Used in the Rubber Industry, Their Classification and Health Hazards ..... N 73
Heist, J. H.....*Portrait* Ap 95
Helium in the Rubber Industry..... Au 62
Hemoglobin a Compounding Ingredient... S 74
Henderson, F. R.....*Portrait* Ja 70
Henry, Beulah Louise.....*Portrait* Ja 78
Hevea, Hardier Roots for..... Je 96
in Belgian Congo..... Au 98
on Castilla, Grafting..... Jl 65
Rubber Tree Flowers..... Ap 112
Hexalin ..... F 76
Acetate ..... S 66
Highway Safety Suggestions, Prizes for.. O 53

HIPPENSTEEL, C. L.—
Rubber Compression Testing Machine.. S 55
Historic Tubing Machine, An..... Ma 71
Hoist, Mono-Rail ..... O 13
Holland Rubber Trade..... O 42
Tunnel, Emergency Truck for..... Au 104

HOLT, E. G.—
Five Years of Restriction..... F 55
Rubber Manufacturing Industry of the U. S. ..... D 58

HOMEWOOD, C. F., AND A. O. ASHMAN—
Instrument for Recording Temperatures in Mills and Calenders..... Ja 59

HOPKINS, A. T.—
Public Financing ..... S 110

Ja=Jan.; F=Feb.; Ma=March; Ap=April; My=May; Je=June; Jl=July; Au=August; S=Sept.; O=Oct.; N=Nov.; D=Dec.

PAGES

Horseshoe Rubber, Much Used ..... O 9
Treads, Balata ..... Ja 55
Hose Wrapping System, Improved..... F 67
Hot water Bottles for Chinese Flappers.. D 92
Hough, Harry .....*Portrait* N 85
House Kills Pool Purchase Bill..... My 65
How to Grow High Yielding Rubber Trees. O 10
Huber, E. E.....*Portrait and Sketch* My 87
Huber's Research Laboratory..... Ja 55
Hungarian Rubber Mfg. Co..... S 122
Hungary, Industry in.....Je 98, Au 95
Hutchins, C. T.....*Portrait and Sketch* Au 86
Hydraulic Press Plates, Cleaning..... N 58
Hydrocarbon in Reclaim, Value of the Rubber .....*W. W. Vogt* Ma 74
Rubber, Properties of..... F 76
Hydrometer, Standardized ..... S 82

I

Iceland Favors American Goods..... Ma 66
Ileite-Bakelite ..... F 83
Incorporations, New.....O 30, N 83, D 83, Ja 85, F 88, Ma 86, Ap 88, My 82, Je 86, Jl 84, Au 84, S 84
INDIA RUBBER WORLD Readers, Helping.. O 58
Statement.....N 95, My 102
South, Rubber Trade..... O 44
Industrial Illness and Its Cure..... Jl 116
Industry Outlook, Rubber..... Ja 53
Rubber Manufacturing, of the U. S. *E. G. Holt* D 58
Inelastic Specifications ..... D 78
Influence of the Sulphur-Rubber Ratio on the Physical Properties of Hard Rubber *David E. Pearsall* D 70
Inner Tubes from Rubber Latex..... Au 59
Laursen Water Cure Process for.... D 66
Molded, Equipment ..... S 69
Inquiries, Rubber Trade.....O 48, N 95, D 79, Ja 80, F 88, Ma 86, Ap 81, My 78, Je 95, Jl 79, Au 94, S 82
Institute of Chemistry..... Jl 78
Instrument for Recording Temperatures in Mills and Calenders *A. O. Ashman and C. F. Homewood* Ja 59
Insurance for Employes..... D 87
International Acceptance Bank.....F 96, Au 90
Crude Rubber Syndicate..... Au 110
Inventory—Production—Domestic Shipments, Tire...O 48, N 116, D 116, Ja 118, F 120, Ma 118, My 120, Je 122, Jl 106, Au 104, S 122
Summary by Years..... Ap 70
Italian Industry ..... Jl 93

J

Japan, American Firm in..... Jl 79
Japanese Tire Consumption..... Ap 85
Japanned Rubber Molds..... Je 66

JOHNSON, C. R.—
Variation of Color in Carbon Black.... F 65

JOHNSTON, CLIFFORD C.—
Native Rubber Situation in The Netherlands East Indies..... Je 71

JONES, WEBSTER N., AND BERT S. TAYLOR—
Rubber Aging by Certain Metallic Salts Ap 75

JONES, WEBSTER N., ARTHUR KELLY AND BERT S. TAYLOR—
Aging of Stretched Rubber..... Jl 72

K

Kabacan—The Heart of Mindanao *Emmet Harris* Je 61
Kearns, William.....*Portrait and Sketch* Au 87
KELLER, T. P., AND D. J. BEAVER—
Effect of Carbon Black on Compounds. S 73

KELLY, ARTHUR, BERT S. TAYLOR AND WEBSTER N. JONES—
Aging of Stretched Rubber..... Jl 72
Kelly, Phil J.....*Portrait and Sketch* S 86

KEMP, A. R., W. S. BISHOP AND T. J. LACKNER—
Direct Determination of Rubber..... Jl 72
Klein, Matthew.....*Portrait and Sketch* Ja 91
Knitting Arts Exhibition..... My 74
Kratz, G. D.....*Portrait and Sketch* Ma 88

PAGES

L

Labels.....F 103, My 102, Je 105, Jl 104, S 103
Laboratories, duPont ..... Ja 61
Laboratory, Reclaimed Rubber..... Ap 91
Research, Huber's ..... Ja 55
Seven Years' Experience with a Mill Room Testing .....*R. M. Warner* O 5

LACKNER, T. J., A. R. KEMP AND W. S. BISHOP—
Direct Determination of Rubber..... Jl 72
Lady Edison .....*Portrait* Ja 78

LAMP BLACK—
Rubber Compounding Practice *Webster Norris* Ma 65

LATEX—
Contaminated with Copper Compounds as a Source of Fire *J. G. Fol and W. de Visser* My 71
in Linoleum Substitute..... Ja 112
Inner Tubes from Rubber..... Au 59
Judging Prospects in Nursery..... Ja 112
Powdered Rubber ..... Ma 59
Preservative, The Efficient..... Je 83
Rubber from, by Means of Alkali..... Ja 71
Latvia, Rubber Trade in..... Ma 96
Laursen Water Cure Process for Inner Tubes ..... D 66
Lead Compounds and Magnesia *Webster Norris* Au 55, S 71
Leather Substitutes, Rubber in..... My 82
Waterproofing with Rubber..... Ja 62
Legal.....O 3, D 100, Ja 82, F 83, Ma 81, Ap 85, My 103, Je 96, Jl 105, Au 84, S 94
Letters, Interesting, from Our Readers Au 80, S 82
Liberia's Planting Progress..... S 63
Light, Action of, on Dyed Fabrics..... Jl 74

LIME—
Lead Compounds and Magnesia *Webster Norris* S 71
Limitator, Edmore Power Demand..... D 82
Linoleum Substitute, Latex in..... Ja 112

M

Machinery Patents.....O 24, N 77, D 75, Ja 75, F 80, Ma 99, Ap 101, My 97, Je 101, Jl 99, Au 99, S 99
Vibrations, Removing ..... My 61

MACHINES AND APPLIANCES, NEW—
Air Conditioning Unit..... O 22
Airbag Inserter ..... D 73
Balance, Specific Gravity..... Au 76
Banbury Laboratory Mixer..... Je 81
Battery Jar Press..... Ap 79
Bead Remover and Tire Vise..... N 76
Bearing, Adjustable ..... S 77
Blocks, Roller-Bearing Pillow..... Au 76
Boiler, Automatic Gas Fired..... My 75
Flue Cleaner ..... F 79
Bolt, Flexible, for Mill Use..... Ap 80
Brake, Automatic Rubber Mill..... Jl 76
Brand, Electric Numeral..... N 76
Branding Device for Tires..... Ma 77
Cement Mixer ..... Je 81
Rubber, Jars and Pots..... Je 81
Cleaner, Boiler Flue..... F 79
for Belt Presses..... S 78
Cleaning Device, Portable..... My 76
Compound Ingredient Scale..... Ma 78
Conditioner, Unit Air..... Ap 78
Controller, Press Time Cycle..... My 76
Recorder ..... Jl 76
Cooling Rack, Automatic Rubber..... F 78
Cord Tire Building Machine..... D 74
Counter, Pocket Pick..... Ja 73
Revolution ..... Je 81
Coupling, Flexible ..... N 76
Cutter for Tubing Machine Feed.... My 74
Grinder ..... F 78
Rubber Washer ..... S 78
Tape, Automatic ..... F 78
Drip Trap for Vulcanizers..... O 23
Fabric Regulator ..... My 74
Flexible Coupling ..... N 76
Flexing Test Machine..... Ap 79

PAGES

MACHINES AND APPLIANCES, NEW—
FOOTWEAR—
Sole and Heel Press Vulcanizer.... Ap 79
Vulcanizer, Rubber ..... Ap 79
Gage, All Type Tire..... S 78
Water Level, for Boilers..... Au 78
Gear Reduction Unit..... S 77
Grinder, Cutter ..... F 78
Disk ..... Je 83
Horizontal ..... Ma 79
Scrap Tire ..... Ja 73
Hand Stamp Machine..... O 23
Hard Rubber Printing Machine..... N 76
Hardness Indicator, Constant-Diameter. N 75
Hook, Tape, One Man..... S 77
Hose Connection, Small Steam..... S 78
Cross Wrapping Machine..... D 76
Wrapper and Unwrapper..... D 75
Hygrometer, Recording ..... Ma 79

INNER TUBES—
Automatic Mold ..... My 75
Full Molded Vulcanizer for..... N 77
Inserter, Airbag ..... D 73
Press with Electric Timer, Automatic. S 76
Splicer, New ..... Au 77
Vulcanizer ..... Ma 78
Full Molded ..... My 76
Interchangeable ..... Ja 75
Laboratory Cement Mixer..... O 23
Lock Stitch Machine..... S 76
Mandrels, Improved Machine for Polishing ..... D 73
Meter, Lineal Stock..... S 78
Mill Brake, Automatic Rubber..... Jl 76
Warming, and Two-Roll Mixer..... O 22

MIXERS—
Banbury Laboratory ..... Je 81
Cement ..... Je 81
Experimental ..... Jl 77
Laboratory Cement ..... O 23
Two-Roll, and Warming Mill..... O 22
Mold, Automatic Inner Tube..... My 75
Nuttall Sales Taken Over by Westinghouse ..... Jl 77
Plying, Strip, Machine..... D 74
Polishing Mandrels, Improved Machine for ..... D 73

PRESSES—
Automatic Inner Tube, with Electric Timer ..... S 76
Roll Feed Punch..... Je 82
Battery Jar ..... Ap 79
Drying ..... N 75
Molding, Automatic ..... Je 82
Special Goose Neck..... Ma 77
Steel Platen ..... S 76
Work Time Signal..... Jl 75
Printing Machine, Hard Rubber..... N 76
Rack, Automatic Rubber Cooling..... F 78
Recorder, Controller ..... Jl 76
Reduction Unit, Gear..... S 77
Variable Speed ..... Ap 80
Regulator, Fabric ..... My 74
Retreader, Full Circle Tire..... My 76
Roller-Bearing Pillow Blocks..... Au 76
Runways, Overhead, for Tire Shops.... O 23
Sand Bag, Curved..... Ma 79
Scale, Combination Counting..... S 77
Compound Ingredient ..... Ma 78
Tire Weighing ..... Au 77
Shears, Alligator ..... Ja 74
Shell, Rubber Stock..... F 80
Strainer ..... Jl 76
Shock Absorber, Armored Rubber.... Ma 77
Shoe Stick, Improved..... Ja 74
Signal, Time, Press Work..... Jl 75
Skiver, A Special..... Ap 78
Column Stand ..... Jl 75
Specific Gravity Balance..... Au 76
Speed Transmission, Variable..... O 22
Splicer, New Inner Tube..... Au 77
Stamp, Hand, Machine..... O 23
Starter, Across-the-Line ..... O 25
New A. C. Manual..... Au 78
Stitcher, Lock ..... S 76

Ja=Jan.; F=Feb.; Ma=March; Ap=April; My=May; Je=June; Jl=July; Au=August; S=Sept.; O=Oct.; N=Nov.; D=Dec.

PAGES

MACHINES AND APPLIANCES, NEW—
Stock Shell, Rubber ... F 80
Strainer, Giant Rubber ... My 74
Stock ... Ja 73
Shell, Rubber ... Jl 76
Strip Plying Machine ... D 74
Tape Cutter, Automatic ... F 78
Temperature Indicator, Surface ... F 79
Tester, Cord, Single Strand ... Jl 77
Rubber Resiliency ... Jl 75
Thermometer, Small Recording ... F 79
Tile, Rubber ... Je 82

TIRES—
Balancing Machine, Static ... Ja 74
Bicycle Press Vulcanizer ... D 74
Branding Device for ... Ma 77
Building Machines, Special ... N 75
Chuck, New Type ... Jl 76
Cord Building Machine ... D 74
Tester, Single Strand ... Jl 77
Core Section ... F 79
Gage, All Type ... S 78
Grinder, Scrap ... Ja 73
Indicator, Constant-Diameter Hardness N 75
Lettering Machine, Mold ... D 74
Overhead Runways for Tire Shop ... O 23
Painting Machine ... Jl 75
Pneumatic, Inspection Machine ... Au 76
Remolding ... Au 77
Repair Sand Bag ... Ma 79
Retreader, Full Circle ... My 76
Retreading Machine ... Ap 78
Solid, Tubing Machine ... D 73
Spot Repair Tool ... Ma 77
Spreader, Air Operated ... Ma 78
Practical ... Ja 74
Tread Tubing Machine ... F 78
Vise and Bead Remover ... N 76
Weighing Scale ... Au 77
Truck, All Steel ... S 77
Barrel ... S 78
Tube Production, Molded, Traveling Demonstration of ... Ma 79
Repair Vulcanizer ... Ap 80
Tuber, Heavy Duty Strainer and ... My 74
Modern General Utility, A ... My 75
Tubing Machine, Solid Tire ... D 73
Tire Tread ... F 78
Unwrapper and Wrapper, Hose ... D 75
Viscosimeter for Rubber Solutions ... Ja 74

VULCANIZERS—
Bicycle Tire Press ... D 74
Drip Trap for ... O 23
Electric Spot ... Ma 78
Steam ... Au 78
Footwear, Rubber ... Ap 79
Full Molded Inner Tube ... My 76
Interchangeable Tube ... Ja 75
Sole and Heel Press ... Ap 79
Tube, Full Molded ... N 77
Repair ... Ap 80
Watch Case ... Ma 78
Holder, Stop ... Au 77
Time Study Stop ... S 77
Wrapper and Unwrapper, Hose ... D 75
Wrapping Machine, Hose Cross ... D 76
Madagascar, Seeks Rubber Plant in ... S 82
Magnesia, Lead Compounds and *Webster Norris* Au 55, S 71

MAGNESIUM CARBONATE—
Rubber Compounding Practice *Webster Norris* F 58
Making Rubber Balls ... O 7
Malaya, Rubber Trade in ... O 43, N 99, D 95, Ja 98, F 99, Ma 97, Ap 99, My 95, Je 99, Jl 97, Au 97, S 97
Manikins, Rubber Anatomical ... Ma 70
Manufacturing Industry, Rubber, of the U. S. ... *E. G. Holt* D 58

MARKETS—
Compounding Ingredients ... O 55, N 111, D 109, Ja 111, F 115, Ma 111, Ap 115, My 113, Je 115, Jl 115, Au 113, S 113
Cotton Fabrics ... O 57, N 115, D 113, Ja 115, F 119, Ma 115, Ap 119, My 117, Je 119, Jl 119, Au 117, S 117

PAGES

MARKETS—
Crude Rubber ... O 50, N 104, D 102, Ja 104, F 108, Ma 105, Ap 109, My 107, Je 109, Jl 109, Au 107, S 107
Annual Review ... F 104
Rubber Exchange ... O 52, N 106, D 104, Ja 106, F 110, Ma 105, Ap 109, My 107, Je 109, Jl 109, Au 107, S 107
Reclaimed Rubber ... O 53, N 107, D 105, Ja 107, F 111, Ma 104, Ap 112, My 110, Je 112, Jl 112, Au 110, S 110
Rubber scrap ... O 54, N 108, D 106, Ja 108, F 112, Ma 108, Ap 106, My 104, Je 106, Jl 112, Au 110, S 110
Masks, Gas, for Oil Workers ... F 88
Rubber and The Army Gas *Maj. Gen. Amos A. Fries* Ma 67
Massachusetts, Rubber Trade in ... O 33, N 86, D 85, Ma 90, Ap 92

MAYNARD, C. E.—
Molding Black Tires ... N 63
Process Development Department, The ... Je 69
Recording Roll Heat of Calenders ... S 62
McClaren, H. L. ... *Portrait* Ja 91
Measuring Riding Qualities *R. W. Brown* Ap 57
Method for Retarding Scorching *A. A. Somerville* Je 77
Mexican Guayule Exports Increase ... O 35
Operations Suspended ... Jl 94
Meyer, Otto ... *Portrait and Sketch* S 89
Midwest Rubber Trade O 37, N 89, D 89, Ja 91, F 95, Ma 93, Ap 95, Je 92, Jl 86, Au 86, S 86
Mill Lines, Rubber, Synchronous Motor Drive for ... *A. S. Rufsvold* My 58
Rubber, Automatic Rotary Elevator for Ja 62

MILLER, GEORGE W., NORMAN A. SHEPARD AND HENRY F. PALMER—
Rate of Cure of Reclaim ... Ma 74
Milling and Collecting Native Rubber, Modern Method of ... My 67
Mills and Calenders, Instrument for Recording Temperatures in *A. O. Ashman and C. F. Homewood* Ja 59
Drinking Water Systems for Rubber Au 65, S 67
Mindanao, Kabacan—The Heart of *Emmet Harris* Je 61
Mining, Sponge Rubber in ... F 63
Mixing Practice, Rubber ... Je 63
Modern Method of Collecting and Milling Native Rubber ... My 67
Mold Quickens, When Rubber ... Je 106
Solution, RSL ... D 110
Molded Inner Tube Equipment ... S 69
Rubber Composition Boats ... Ma 62
Molding Black Tires ... *C. E. Maynard* N 63
Molds, Chrome Finished ... Ja 107
Glazed Rubber ... My 114
Japanned Rubber ... Je 66
Molecule, Rubber, Want Tamed ... D 57
Mono-Rail Hoist ... O 13
Motor Car Registration for 1927 ... F 62
Drive, Synchronous, for Rubber Mill Lines ... *A. S. Rufsvold* My 58
Ratio, Increase in ... S 72
Synchronous ... Je 83
Vehicles in U. S. ... D 79
Motorcycles Increase ... S 121
Motorists' Expenses ... Au 94
Movies, Rubber Stars in ... My 66
Murray-DeLaski & Thropp Tire Suit ... N 87

N

National Association of Cotton Manufacturers', The ... Ma 112, Ap 56
Purchasing Agents ... F 64
Waste Material Dealers, Annual Meetings ... Ap 81
Salvage Division for ... Ja 112
Automobile Show ... F 73
Power Show ... Ja 80
Reserve Credit ... Ap 90
Rubber Machinery Co. ... S 56
Tire Dealers Association Convention D 87, Ja 108
Eighth Annual Convention ... N 89
Plans for November Meeting ... Au 93

PAGES

Native Rubber, Modern Method of Collecting and Milling ... My 67
Neozone—New Anti-Oxidant ... O 6
Netherlands East Indies, Native Rubber Situation in the ... *Clifford C. Johnston* Je 71
Netherlands East Indies, Rubber Trade O 44, N 100, D 96, Ja 99, F 100, Ma 98, Ap 100, My 96, Je 100, Jl 98, Au 98, S 98
New Developments with Dispersed Rubber *H. A. Winkelmann* Jl 53
England Rubber Trade Ja 89, F 90, My 86, Je 89, Jl 87, Au 87, S 87

NEW GOODS AND SPECIALTIES—
Apron, Acid-Proof ... Jl 82
Armorduct Guttaflex ... O 27

AUTOMOBILE ACCESSORIES—
Accelerator Pedal ... N 82
Radiator Protector ... Ap 82
Rumble Seat Top ... Jl 83
Wheel Steering, Safety ... F 85
Bag, Chemically Heated ... O 26
Sport ... Au 83
Ball Gage, Athletic ... Ap 83
Surf ... S 80
Balloon ... Ap 83
Sunshine Toy ... O 27
Band, Elastic Grip Life ... F 84
for Tired Feet ... N 82
Bandage, Antiseptic ... N 81
Basketball Shoe ... Ap 83

BATHING ACCESSORIES—
Balls, Surf ... S 80
Beach Wear ... Jl 82
Colorful and Up-to-Date Costumes for the Beach ... Je 84
Ocean Bathers Use Rubber Hankies My 81
Bladder for Balls, New ... Au 82
Blanket, Lineman's Safety ... S 80
Blocks Rubber Shackle ... N 82
Boat, Hunter's Rubber ... Au 83
Inflated ... Jl 82
Speed ... O 26
Bottle Cap, Milk ... S 81
Metallic Luster ... Jl 82
To Prevent from Slipping ... F 84
Brush, Rubber Massage and Shaving ... Au 83
Bumper, Liberty ... Ma 83
Button, Wringer-Proof ... O 27
Can Top Roughener ... Jl 82
Card Table Cover ... O 26
Chemically Heated Bag ... O 26
Cleaner, Instant Glass ... N 81
Universal Magic ... S 81
Clip, Elastic Spring ... My 81
Coat Hanger, Collapsible ... Ma 82
Container, Tobacco ... N 81
Cord, Armorduct Guttaflex ... O 27
Electric ... O 27
Cover, Patent ... S 80
Rubber for Explosives ... O 26
Curling Lashes, Device for ... Ma 82
Doll, Rubber ... Au 82
Egg, Sponge Rubber ... Ap 82
Exercising Device ... Ja 77
Explosives, Rubber Cover for ... O 26
Fabric, New Rubberized ... Ja 77
Fiz-Ette ... Au 82

FOOTWEAR—
Arch Cushion ... F 85
Boots, Miniature Hi-Press ... Ja 77
Cover, Patent ... S 80
Fashion Trend in Rubber Raincoats and Footwear ... My 80
Galoshes, Hood ... S 81
Heels, Anti-Splash ... Jl 83
Improved Rubber ... O 27
New Type of Cushion ... Ja 77
Hosiery Protector ... Jl 83
Overshoe, Adjustable ... Ja 78
Tailored ... N 82
Protector, All-Rubber ... N 81
Shoe for Basketball ... O 27, Ap 83
Sole, Boy's Tan ... Au 83
Garment for Stormy Weather ... Ma 83
Garters, Elastic Cushion ... Ja 78

Ja=Jan.; F=Feb.; Ma=March; Ap=April; My=May; Je=June; Jl=July; Au=August; S=Sept.; O=Oct.; N=Nov.; D=Dec.

PAGES

NEW GOODS AND SPECIALTIES—
Garters, Golf ... Ja 77
Gas Tubing ... S 81

GOLF—
Balls, Colored ... Jl 83
Vacuum Cup ... Jl 83
Device for ... Au 83
Garter ... Ja 77
Jacket, Waterproof ... F 85
Shoe, New ... Ma 83
Tee ... Jl 83
Twin Anchor ... F 84
With Aluminum Pin ... N 81
Heat, To Reduce Tire ... My 81
Horseshoe Game ... Ma 83
Hose, Dual Rotary ... S 81
Garden ... Au 83
Hot Water Bottle Cover ... Au 83
Novelty ... Ma 82
To Keep Warm ... Ja 78
Inflatable Rubber Novelties ... O 26
Inner Tube, Derby ... Ma 83
Puncture-Proof ... Ja 78
Insulators, Rubber ... N 82
Jar Covers ... Au 82
Wrench ... S 80
Jewelry, Rubber ... Jl 82
Knife, Sportsman's ... S 81
Life Saving Suit ... F 84
Lineman's Safety Blanket ... S 80
Mask, Gas ... Ap 82
Mirror, Unbreakable ... Au 82
Mitten, Cleaning ... Ap 82
Motor Mounting, Rubber ... Ma 82
Nasal Siphon ... My 81
Nozzle, Automatic Shut-Off and Improved ... My 81
For Flask or Bottle ... O 27
New Hose ... Ap 83
Okocord ... Ma 83
Overshoe, Tailored ... Ma 83
Pad, Teething ... Au 83
Paving Blocks, Interlocked System for ... O 27
Pedal, Accelerator ... N 82
Perfo-Siphon ... Au 82
Plaster, De Luxe Gum ... My 81
Plug, New Unbreakable ... Ja 77
Raincoats, Fashion Trend in Rubber Footwear and ... My 80
Rim Seal, Water-Tite ... F 84
Road, New Form of Rubber ... N 82
Scraper, Plate ... Au 82
Shackle Blocks, Rubber ... N 82
Shock Absorbers ... Ja 77
Shoulder Strap Fastener ... N 81
Siphon, Fiz-Ette ... Au 82
Perfo-Siphon ... Au 82
Soap Disk, Suction ... S 80
Spring Check, Rubber Cushioned ... F 85
Stamp Pad with Rubber Backing ... Ma 82
Set, Menagerie ... N 81
Sunshades, Rubber ... S 81
Swimmer, Boat Shaped ... Ma 83
Swimming Belt, Safety ... Ap 83
Device, New ... Ma 82
Tennis String Protector ... S 80
Tie, Inflated Lining for ... F 84

TIRES—
All Black ... Ma 82
Casing, Puncture Proof ... Jl 83
Chain, Rubber ... F 84
Cord, Fabric ... Ap 82
Cushion, Stone Protection ... Ja 77
Double Eagle ... Au 82
Flap, Roll, Standardized Scale ... My 81
Heat, To Reduce ... My 81
Murray Markets New ... Ma 83
New ... F 85
Utility ... O 26
Patch, Blowout ... S 81
Semi-Pneumatic ... N 81
Wheelbarrow ... Ap 83

TOYS—
Balloons ... Jl 83
Boot, Miniature Hi-Press ... Ja 77

PAGES

NEW GOODS AND SPECIALTIES—
TOYS—
Doll, Rubber ... Au 82
Inflatable Rubber Novelties ... O 26
Sanitary Rubber ... Ap 83
Santa Claus Works with Rubber, When ... D 80
Sponge Rubber Ball ... Ap 82
Teddy Bear ... Ap 82
Tubing, Gas ... S 81
Water Sports, Duck for ... Jl 82
Wheel, Steering, Safety ... F 85
When Santa Claus Works with Rubber D 80
Wire, Colorubber Hookup ... Ap 83
New Incorporations ... O 30, N 83, D 83, Ja 85, F 88, Ma 86, Ap 88, My 82, Je 86, Jl 84, Au 84, S 84
Jersey Rubber Trade ... O 34, N 87, D 86, Ja 88, F 91, Ma 89, Ap 91, My 85, Je 88, Jl 88, Au 88, S 88
Publications ... O 28, N 79, D 78, Ja 82, F 82, Ma 80, Ap 84, My 77, Je 80, Jl 80, Au 79, S 79

NEW YORK RUBBER EXCHANGE
Crude Rubber Market ... O 52, N 106, D 104, Ja 106, F 110, Ma 105, Ap 109, My 107, Je 109, Jl 109, Au 107, S 107
Second Annual Dinner ... Ma 69
York Rubber Trade ... O 35, N 86, D 88
University Accident Course ... N 67
Niagara Falls, Over, in a Rubber Ball.. Au 90

NORRIS, WEBSTER
Lead Compounds and Magnesia..Au 55, S 71
Rubber Compounding Practice... O 1, N 55, D 53, Ja 57, F 58, Ma 65, Ap 59
Sulphur and Selenium ... Jl 60
North Carolina Aids Rubber Quest... S 92

O

Oberschmidt, Fred H. ...*Portrait* F 93

OBITUARY
Andrus, George Sherman ...*Portrait* Ap 86
Bache, Leopold Semon ... N 93
Baird, Robert B. ... O 40
Barwis, Harold S. ... My 92
Best, Samuel G. ... Ja 84
Brown, Lorenzo D. ... O 40
Bunge, Edouard ... Ja 84
Burnell, Eugene Dickinson ... Ap 86
Callaway, Fuller E. ...*Portrait* Ma 84
Carr, Frederick S. ... N 94
Chandler, John J. ...*Portrait* F 86
Cook, Otis R. ...*Portrait* Ma 84
Corson, Henry C. ... Ap 86
Farrington, James ...Ap 86, My 91
Fisher, George Frederick ... Je 94
Fisk, C. Francis ... F 86
Ford, James B. ...*Portrait* My 91
Forsyth, Thomas Alexander..*Portrait* My 91
Gravel, Joseph O. ... Ja 84
Grubb, D. A. ... N 93
Gunn, James Newton ...*Portrait* Ja 83
Hillman, Henry Van Arsdale ... F 86
Jamieson, R. E. ... Ja 84
Jordan, Thomas Anthony ... My 92
Kelly, Edward M. ... Ma 84
Thomas ... Ap 86
Kendall, Edmund W. ... My 92
Lambert, H. M. ... Ma 84
Major, William W. ... Jl 94
Matthews, Moses B. ... My 91
Mulligan, John T. ... Ap 86
Nason, Harvey R. ...*Portrait* D 86
Norris, Mrs. Webster ... Je 94
Noyes, Harry H. ... N 93
O'Neil, Michael ...*Portrait* Ja 83
Parker, Russell ... Je 94
Pitcher, R. C. ...*Portrait* F 86
Quine, Harry S. ...*Portrait* Ma 84
Robertson, Norman A. ... Jl 94
Robinson, William Hezekiah ... N 93
Sandberg, John ... Jl 94
Sanford, Frederic H. ... N 93
Scott, Henry L. ... Je 94
Seaman, Frederick A. ...*Portrait* F 86
Seiberling, C. W., Jr. ...*Portrait* Ap 86
Sharts, Frank W. ...*Portrait* Ja 84
Shaw, George Edwin ... Ja 83

PAGES

OBITUARY—
Slater, W. J. ...*Portrait* Jl 94
Stimson, E. L. ...*Portrait* My 91
Taylor, B. H. ... N 93
Thornton, Thomas ... F 86
Trumbour, G. E. ...*Portrait* S 93
Tweedy, O. S. ... O 40
Webster, Charles B. ... Ma 84
Work, Bertram George...*Portrait* O 39
Wuchter, W. W. ...*Portrait* Jl 94

OGREN, CARL F.
Physical Testing of Asbestos Brake Linings, The ... N 59
Ohio Rubber Trade ... O 31, N 84, D 84, Ja 86, F 89, Ma 87, Ap 89, My 83, Je 87, Jl 85, Au 85, S 85
Oil, Red, and Stearic Acid Standards... N 112
Softeners, Rubber Compounding Practice *Webster Norris* N 55

OXIDES
Rubber Compounding Practice *Webster Norris* F 58
Oxygen as Rubber's Friend ... Ma 112
Oxynone ... Ma 75

P

Pacific Coast Rubber Trade..O 36, N 90, D 90, Ja 92, F 93, Ma 92, Ap 94, My 88, Je 91, Jl 90, Au 91, S 91
Paint, Protective, from Rubber *Harold Gray* Ap 76
Quick Drying Tire ... Ap 91
Rubber Fluorescent ... Je 73
Paints, Acidseal ... S 66

PALMER, HENRY F., NORMAN A. SHEPARD, AND GEORGE W. MILLER
Rate of Cure of Reclaim ... Ma 74
Para Ages Well, Why Hard Fine... N 107
Parachute Landing Inflated Rubber Raft. N 118
Paraldehyde ... F 76
Parr, S. W., Heads A.C.S. ... F 76
Partridge, A. G ...*Portrait and Sketch* O 35
Patent Royalties not Taxable... Au 87

PATENTS
Chemical ... O 20, N 74, D 72, Ja 72, F. 76, Ma 100, Ap 102, My 98, Je 102, Jl 100, Au 100, S 100
Designs ... O 47, N 102, D 99, Ja 102, F 103, Ma 103, Ap 104, My 102, Je 105, Jl 104, Au 103, S 104
Labels ... F 103, My 102, Je 105, Jl 104, S 103
Machinery ... O 24, N 77, D 75, Ja 75, F 80, Ma 99, Ap 101, My 97, Je 101, Jl 99, Au 99, S 99
Prints..O 47, Ja 102, My 102, Je 105, Au 103, S 104
Process..O 25 N 77, D 75, Ja 76, F 81, Ma 100, Ap. 102, My 98, Je 102, Jl 100, Au 100, S 100
Rubber.....O 45, N 101, D 97, Ja 100, F 101, Ma 101, Ap 103, My 99, Je 103, Jl 101, Au 101, S 101
Trade Marks....O 46, N 102, D 98, Ja 101, F 102, Ma 103, Ap 105, My 101, Je 104, Jl 103, Au 102, S 103

PEARSALL, DAVID E.
Influence of the Sulphur-Rubber Ratio on the Physical Properties of Hard Rubber ... D 70
Penetrometer for Shock Absorbers ... D 82
Pennsylvania Rubber Trade ... N 89
Perillo Gum ... Ja 103

PERRY, G. E.
Abolition of Rubber Restriction .... My 53
Peru, Retreading Concession Granted in.. O 38
Peruvian Balata Exports Increase ... Au 104
Tire Concession ... O 38
Physical Bases of Tire Cord Properties *H. P. Gurney and E. H. Davis*..Ma 53, Ap 63
Testing of Asbestos Brake Linings, The *Carl F. Ogren* N 59
Pigment Reenforcement of Reclaim *H. A. Winkelmann and E. G. Croakman* Ma 73
Rubber Compounding Practice *Webster Norris* Ap 59
Pioneer, A Forgotten ... Ma 94
Pip-Pep Accelerator ... Au 114
Pirelli, Dr., Speaks on International Questions ... Je 105

Ja=Jan.; F=Feb.; Ma=March; Ap=April; My=May; Je=June; Jl=July; Au=August; S=Sept.; O=Oct.; N=Nov.; D=Dec.

PAGES

PLANTATIONS
How to Grow High Yielding Rubber Trees ... O 10
What is a Rubber, Worth? ... N 65
Planting Companies, American ... S 57
Progress, Liberia's ... S 63
Plants, Rubber, The Lifting Truck in ... Je 60
Plastikon ... Ap 106
Plastometer, Operation of ... My 79
Plates, Hydraulic Press, Cleaning ... N 58
Rubber Filter Press ... Ma 64
Pool, Dutch Selling ... Ap 96
Government Favors Rubber ... Ap 92
Purchase Bill, House Kills ... My 65
Posts, Stop, Rubber ... O 37
Powdered Rubber Latex ... Ma 59
Power Demand Limitator, Edmore ... D 82
Practical Tire Retreading ... D 61
Press, Automatic Vulcanizing ... O 13
Pressure Recorder and Controller for Tire ... Ma 63
Price Policy, One ... N 83
Prints ... O 47, Ja 102, My 102, Je 105, Au 103, S 104
Probe, Value of Rubber ... Ap 91
Process Development Department, The *C. E. Maynard* Je 69
Patents ... O 25, N 77, D 75, Ja 76, F 81, Ma 100, Ap 102, My 98, Je 102, Jl 100, Au 100, S 100
Production, Mass, of Cord Tires ... Au 60
Profits, Sensational Rubber ... N 91
Progress in Footwear Making ... N 62
Proofing and Curing, Simultaneous ... F 76
Rubber, Artificial Silk ... Au 68
Publications, New ... O 28, N 79, D 78, Ja 82, F 82, Ma 80, Ap 84, My 77, Je 80, Jl 80, Au 79, S 79
Pulley Band Tire Building Process *Joseph Rossman* My 63, Je 67
Pump, Hard Rubber Acid ... Au 81
Purchasing Power, Promoting ... D 79
Pyrax Tales ... Ap 56

Q

QUESTIONNAIRE (*Rubber Association of America, Inc.*)
Second Quarter of 1927 ... O 49
Third Quarter of 1927 ... D 101
Fourth Quarter of 1927 ... Ap 106
First Quarter of 1928 ... Je 106
Second Quarter of 1928 ... S 122
Quotations ... O 30, N 83, D 83, Ja 85, F 87, Ma 85, Ap 87, My 82, Je 86, Jl 84, Au 84, S 83

R

RSL Mold Solution ... D 110
Raft, Parachute Landing Inflated Rubber N 118
Railways, Sound Dampening with Rubber. S 64
Rayon for Auto Tires ... Ja 102
RECLAIM
Beats Crude in Aging, When ... D 66
Dispersive Effect of in Compounding. N 72
Effect of Sulphur Vulcanizing *S. E. Cartlidge and H. L. Snyder* Ma 73
Factors in Processing ... *P. S. Shoaff* Ma 74
Pigment Reenforcement of *H. A. Winkelmann and E. G. Croakman* Ma 73
Rate of Cure of *Norman A. Shepard, Henry F. Palmer and George W. Miller* ... Ma 74
Storing and Shipping ... Ap 73
Symposium ... Ma 73
Tonnage, Analysis of ... My 60
Used in Canada ... N 94
Value of the Rubber Hydrocarbon in *W. W. Vogt* Ma 74
Reclaimed Rubber Laboratory ... Ap 91
Market ... O 53, N 107, D 105, Ja 107, F 111, Ma 104, Ap 112, My 110, Je 112, Jl 112, Au 110, S 110
Recording Roll Heat of Calenders *C. E. Maynard* S 62
Recovery Process, Invents a Rubber ... My 92
Refrigeration in Rubber Working ... N 67
Removing Machinery Vibrations ... My 61
Renascence of Synthetic Rubber ... Jl 69
Research in the Rubber Industry ... My 72
Resistox ... My 72
Restriction, Abolition of Rubber *G. E. Perry* My 53
Five Years of ... *E. G. Holt* F 55
From a French Viewpoint ... My 96
Why British Discarded ... Au 64
Rhode Island Rubber Trade F 91, Ma 90, Jl 86, Au 89, S 90
Riding Qualities, Measuring *R. W. Brown* Ap 57

PAGES
Rims, Clincher, are Passing ... Ap 67
Inspected and Approved by The Tire & Rim Association ... F 112, Ap 61, My 79, Je 95, Jl 79, Au 94, S 94
Robertson, J. A. ... *Portrait* My 83
S. B. ... *Portrait* F 94
Rockhill, L. C. ... *Portrait and Sketch* My 84
Rolls, Engraved Color Printing ... Ap 72
ROSSMAN, JOSEPH
Direct Uses of Waste Rubber ... Ma 60
Pulley Band Tire Building Process My 63, Je 67
Watch Case Vulcanizers ... Jl 67, Au 69
RUBBER—
Anatomical Manikins ... Ma 70
and Guayule Imports ... My 104
Army Gas Mask, The *Maj. Gen. Amos. A. Fries* Ma 67
ASSOCIATION OF AMERICA, INC.—
Annual Dinner, The ... F 68
Meeting and Dinner ... Ja 67
Official Type Samples ... Jl 69
Association of Canada ... Ap 81
Cheap ... N 85
Compounding Practice ... *Webster Norris* O 1, N 55, D 53, Ja 57, F 58, Ma 65, Ap. 59, My 55
Compression Testing Machine *C. L. Hippensteel* S 55
Direct Determination of ... *A. R. Kemp, W. S. Bishop and T. J. Lackner* ... Jl 72
Estate Economy ... Au 58
Experiment, Educational ... My 62
Fiber Reinforcement of ... Au 63
For Soda Fountains ... Ja 63
From Latex by Means of Alkali ... Ja 71
Goods, Freshening ... N 94
Grained ... My 54
Hardness Tester ... *Erle C. Zimmerman and R. W. Brown* Ma 74
History, Early ... Au 122
Improve Upon, Would ... Ja 72
Industry's Outlook ... Ja 53
INSTITUTE—
Begins Work, The ... Au 62
Formally Organized ... Jl 56
Organized by Rubber Manufacturers Je 62
Sponsors Tire Warranty ... S 56
Lighter Than Cork, A ... Ma 75
Mixing Practice, A Symposium ... Je 63
Origin of ... Je 96
Patents ... O 45, N 101, D 97, Ja 100, F 101, Ma 101, Ap 103, My 99, Je 103, Jl 101, Au 101, S 101
Physical Testing *Ernest R. Bridgwater* Ma 57
Quiets Trolley Cars ... S 61
Restriction, Abolition of ... *G. E. Perry* My 53
Safeguards Detectives ... Ma 68
Situation, The ... *A. A. Garthwaite* Ap 70
Stars in Movies ... My 66
Structure, Restoring ... F 76
Trade Association Dinner ... Ja 67
Unregenerate, When is? ... Je 78
Vulcanized with Polynitro Compounds and Benzoyl Peroxide, Chemical Unsaturation of *Harry L. Fisher and A. E. Gray* My 72
Working, Refrigeration in ... N 67
Rubberized Multi-Ply Fabrics ... My 54
Rubbers see Footwear
Rubberware Bloom, Removing ... Ma 71
RUFSVOLD, A. S.—
Synchronous Motor Drive for Rubber Mill Lines ... My 58
Rumania, Rubber Trade in ... Ap 98
Russia, Rubber Trade in ... Ma 96, Au 96
Russian Rubber Absorption ... Au 81
Trust ... O 42
Rutherford, W. O. ... *Portrait and Sketch* S 88

S

Salts, Certain Metallic, Rubber Aging by *Bert S. Taylor and Webster N. Jones* Ap 75
SAUCHELLI, VINCENT—
Guayule Rubber a Home Industry ... Je 55
Scorching, Method for Retarding *A. A. Somerville* Je 77
Scrap Rubber Market ... O 54, N 108, D 106, Ja 108, F 112, Ma 108, Ap 106, My 104, Je 106, Jl 112, Au 110, S 110
Rates ... D 85
Seeds, Edison Asks Brazil for Rubber ... N 83
Selenium and Sulphur ... *Webster Norris* Jl 60
Serums Hinder Milling, Claims ... Je 83
Seven Years' Experience with a Mill Room Testing Laboratory ... *R. M. Warner* O 5

PAGES
Shale Rubber Tire Tread ... Ma 70
Shanghai, Rubber Goods Factory for ... Jl 93
Shelving, Interlock Steel ... Au 81
SHEPARD, NORMAN A., HENRY F. PALMER AND GEORGE W. MILLER—
Rate of Cure of Reclaim ... Ma 74
Shipping and Storing Reclaim ... Ap 73
SHOAFF, P. S.—
Factors in Processing Reclaim ... Ma 74
Shock Absorbers, Penetrometer for ... D 82
Insulated Automobile Seats ... Je 73
Bus Seat ... O 9
Shudder-Proofing Motor Yachts ... D 63
Silk, Artificial, Rubber Proofing ... Au 68
Simplification of Tire Sizes ... O 12
Simplified Practice is Popular ... Je 69
Singapore, Exports of Rubber and Guttas to U. S. from ... My 104
SMITH, G. B. L. AND A. J. WEISS—
Certain Aryl-Substituted Biguanides ... Ap 75
SNYDER, H. L. AND R. E. CARTLIDGE—
Effect of Sulphur Vulcanizing Reclaim Ma 73
Society of Automotive Engineers, for Fewer Rim Sizes ... Je 75
Chemical Industry ... Au 74
Socket Lock, Weatherproof ... Ja 87
Soda Fountains, Rubber for ... Ja 63
Sodium Silico Fluoride—Coagulant ... Ma 75
SOFTENERS—
Degras—Rubber Softener ... O 4
Dispersol ... O 20
Rubber Compounding Practice *Webster Norris* O 1, N 55
Some Accelerator Characteristics as Revealed by Coefficients of Vulcanization *A. F. Hardman and Frank L. White* O 18
SOMERVILLE, A. A.—
Method for Retarding Scorching ... Je 77
Somerville, A. A. ... *Portrait* Ja 70
Sound Dampening Railways with Rubber ... S 64
South African Hose Tariffs ... Ma 68
Rubber Mfg. Co. ... Au 110
Tariff May Drop ... Au 97
India Rubber Trade ... N 99
Rubber Trade in the ... N 88, D 87, Ma 91, Ap 93, My 87, Je 90, Jl 89, Au 90, S 89
Spain, Rubber Trade in ... N 98
Specifications, Inelastic ... D 78
Spence, David ... *Portrait* Je 55
Sponge Rubber in Mining ... F 63
Stabilator, Rubber Flow ... Au 103
Stabilite ... O 8, N 107
STATISTICS—
Brazil, Rubber Goods Exports to ... F 106
Canada, Rubber Statistics ... N 103, Ja 103, Ap 120, My 118, Au 118
Ceylon Rubber Exports ... O 51, D 105, Ja 108, Ma 108, Ap 112, My 110, Je 112, Jl 106, S 118
Dealers' Stocks of Automobile Tires as of Oct. 1, 1927 ... D 67
Preliminary Statistics of ... N 64
Exports of Rubber, Caucho and Balata from the Amazons during First Six Months of 1927 ... O 60
1927 ... Ap 122
French West Africa ... N 94
Japan, Automobile Tires Imported into Ap 120
London Stocks ... O 49, N 105, D 101, Ja 103, F 122, Ma 118, Ap 120, My 118, Je 120, Jl 120, Au 121, S 121
Malaya, British, Rubber Exports ... O 53, N 107, D 105, F 106, Ma 118, Ap 112, My 110, Je 112, Jl 106, Au 118, S 121
Plantation Rubber Exports from ... O 51, N 108, Ja 105, F 122, Ma 118, My 110, Je 111, Au 121, S 121
Malayan Exports, 1927 ... Ap 86
Panama City Exports ... Ma 103
Poland's Rubber Consumption ... D 94
Porto Rico's Tire Imports ... N 88
Stocks of Rubber at End of Month ... Jl 112
Tire Inventory — Production — Domestic Shipments ... O 48, N 116, D 116, Ja 118, F 120, Ma 118, My 120, Je 122, Jl 106, Au 104, S 122
Summary by Years ... Ap 70
United Kingdom ... O 49, N 103, D 101, Ja 103, F 107, Ma 116, Je 120, Jl 120, Au 119, S 119
UNITED STATES—
Automobile Casings Shipped during 1926 and 1927 ... Ma 94
Production ... Je 89
Crude and Waste Rubber Imports O 60, N 118, D 116, Ja 118, F 106, Ap 122, My 119, Je 122, Jl 122, Au 121, S 121

Ja=Jan.; F=Feb.; Ma=March; Ap=April; My=May; Je=June; Jl=July; Au=August; S=Sept.; O=Oct.; N=Nov.; D=Dec.

PAGES

STATISTICS—
UNITED STATES—
Crude Rubber Arrivals....O 59, N 117 D 115, Ja 117, F 121, Ma 117, Ap 121, My 119, Je 121, Jl 121, Au 120, S 120
Imports ..... Ja 71
Custom House Statistics....O 48, N 103, D 106, Ja 108, F 107, Ma 116, Ap 120, My 118, Je 120, Jl 120, Au 119, S 119
Imports, Consumption and Stocks..O 53, N 107, D 105, Ja 107, F 111, Ma 107, Ap 112, My 110, Je 112, Jl 106, Au 118, S 118
of Crude Rubber, Allied Gums and Liquid Latex—by Countries..... S 118
Motor Vehicles in..... D 79
Questionnaire....O 49, D 101, Je 106, S 122
Rubber Consumption 1926-1927..... Jl 106
Income, Decline in..... D 88
Statistics....O 54, N 108, D 106, Ja 108, F 107, Ma 116, Ap 120, My 118, Je 120, Jl 120, Au 119, S 119
Tire Fabric Exports, 1927..... Je 106
Production ..... N 69
World Export Trade in Rubber Hose.. Je 122
Motor Vehicle Census, Jan. 1, 1926, 1927, and 1928..... Jl 81
Rubber Absorption (Net Imports) O 54, N 108, D 103, Ja 107, F 122, Ma 104, Je 122, Jl 122, Au 121, S 121
Rubber Production (Net Exports) O 54, N 108, D 103, Ja 107, F 122, Ma 104, Je 122, Jl 122, Au 121, S 121
Supply of Balata..... Jl 78
World's Rubber Position..... Ma 108
Stearic Acid and Red Oil Standards.... N 112

STEDMAN, JAMES H.—
Tests for Rubber Tiling..... F 61

STEVENS, HENRY P.—
Nature of Vulcanization, The (Part III) ..... Au 73
Stocks, Dealers', of Automobile Tires... Je 70
as of Oct. 1, 1927..... D 67
Preliminary Statistics of..... N 64
Storing and Shipping Reclaim..... Ap 73

STRAUS, P.—
Synthetic Rubber..... D 64
Street Car Flooring and Upholstering... Au 68
Railways, Rubber-Tired Cars for..... Ja 56
Stretched Rubber, Aging of *Arthur Kelly, Bert S. Taylor and Webster N. Jones* ..... Jl 72
Subox ..... Jl 74
Subsidy That Helps Many, A..... N 118
Substitute for Rubber..... D 89
Sulphur and Selenium....*Webster Norris* Jl 60
Rubber Ratio on the Physical Properties of Hard Rubber, Influence of the *David E. Pearsall* D 70
Situation, The ..... N 74
What Form is Best?..... Je 69
Superhighway Project..... F 96
Sweden, Overman Tires in..... My 104
Rubber Trade.....N 93, Ja 96, Ap 98
Swedish Rubber Factories..... Au 96
Switzerland's Rubber Trade.....Ma 118
Symposium, Reclaim..... O 14
Synchronous Motor..... Ap 80
Drive for Rubber Mill Lines *A. S. Rufsvold* My 58
Synthetic Hopes Raised..... S 66
Rubber ..... N 94
Rubber .....*Dr. P. Straus* D 64
Renascence of ..... Jl 69

T

Talcs, Pyrax ..... Ap 56
Tapping, The Fine Art of Rubber..... Ap 71

TAYLOR, BERT S. AND WEBSTER N. JONES—
Rubber Aging by Certain Metallic Salts ..... Ap 75

TAYLOR, BERT S., ARTHUR KELLY AND WEBSTER N. JONES—
Aging of Stretched Rubber..... Jl 72
Technologists, American Rubber..O 17, N 71, D 69, Ja 69, Ma 76, My 73, Je 79, Jl 71, Au 75, S 75.
Canadian Group..... Ap 77
Televox Aided by the Use of Rubber.... Ap 66
Temperatures in Mills and Calenders, Instrument for Recording *A. O. Ashman and C. F. Homewood* Ja 59
Tennis Ball, Seeking Better..... Ma 94
Line, The Nineteen Twenty-Eight.... Ja 79
Tester, Rubber Hardness *Erle C. Zimmerman and R. W. Brown* Ma 74
Testing Machine, Care and Calibration of ..... Jl 66
Rubber Compression *C. L. Hippensteel* S 55
Rubber Physical *Ernest R. Bridgwater* Ma 57
Set .....D 110

PAGES

Tew, James D.....*Portrait and Sketch* My 84
Texas Standardizes Hose Coupling.... Ma 88
Thermoplastic Products, Conversion of Rubber into.....*Harry L. Fisher* Ja 70
Throbred Emblem.....Ap 90
Thread Making Rubber..... Au 122
Tiling, Rubber, Tests for *James H. Stedman* F 61
Time Recording Dater..... My 70

TIRES—
Aero, English..... O 3
and Rim Association, Report of Rims Inspected and Approved F 112, My 79, Je 95, Jl 79, Au, 94, S 94
American, in South Africa ..... S 93
Anti-Oxidants in ..... Jl 74
Automobile Dealers' Stocks of..D 67, Je 70
Balloon, Ampar..... Ja 65
Gage ..... D 88
Wheel Diameter for..... D 78
Balloons, Advantages of Broad Tread..Ja 62
"Bargains" in..... Au 89
Bead Covering and Flipping..... Jl 63
Black, Molding.....*C. E. Maynard* N 63
Building Process, Pulley Band *Joseph Rossman* My 63
Bus Maintenance ..... Ja 64
Chain Adjuster..... D 92
Clay Blown, Equipment for Curing.... D 65
Cord, Mass Production of..... Au 60
Properties, Physical Bases of *H. P. Gurney and E. H. Davis* Ma 53, Ap 63
Cushion—Solid, A ..... F 116
Dealers' Price Agreement..... Au 114
Economy Record, Claims ..... N 95
Enemy, Controlling a..... F 64
English Watch Case Vulcanizer..... My 78
Fabric Production..... N 69
Flan, New..... Ja 102
Footwear from Old ..... Je 78
for New Fords..... Ja 116
Small Cars, New..... Ja 87
Inflator, Automatic..... Jl 88
Inventory, Production, Domestic Shipments of....O 48, N 116, D 116, Ja 118, F 120, Ma 118, My 120, Je 122, Jl 106, Au 104, S 122
Summary by Years..... Ap 70
of U. S. Grown Rubber..... D 116
Plug, Hand Puller for..... Je 90
Pneumatic, A Novel..... My 92
—Solid ..... Jl 55
Practice, Simplified..... Ma 104
Presses, Pressure Recorder and Controller for ..... Ma 63
Prices ..... My 84
No Immediate Cut in..... My 89
Pulley Band Tire Building Process *Joseph Rossman* Je 67
Ramie and Silk Cord..... Jl 116
Ravon for Auto..... Ja 102
Retreading, Practical..... D 61
Rubber Tired Cars for Street Railways.Ja 56
Selling Cost, Cutting..... Ja 54
Service, Getting Optimum..... Je 122
Simplification ..... My 92
Program ..... Je 66
Size, Simplification..... F 64
Sizes, Simplification of..... O 12
Skid Grip..... D 99
Solar Sectional..... O 47
Solid, Germany Prohibits Use of.... My 70
Solids Quicker in Braking..... Je 116
Specifications ..... Au 93
Stocks, Consignment..... D 88
Strength from Small Particles, Derive..Je 96
Tread Compounding..... N 58
Shale Rubber ..... Ma 70
Testing Apparatus..... Jl 92
Wear, Causes of..... Ma 112
Vulcanizer, Continuous Tunnel Kiln.My 66
Water Cured, Important Advancement in Tire Manufacture ..... Ja 66
Wear, Abnormal ..... Ma 55
Effect of Front-Wheel Alinement on.. F 72
Weftless Cord Fabric for..... F 96
Titus, Frank E.....*Portrait and Sketch* My 88
Tonnage, Reclaim, Analysis of..... My 60
Toothbrush, Rubber Fountain..... Au 80
Townsend, Arthur F. *Portrait and Sketch* My 85

TRADE—
Circulars, Foreign....O 48, N, 95, D 79, Ja 80, F 88, Ma 86, Ap 81, My 78, Je 95, Jl 79, Au 94, S 82
Inquiries and Information....O 48, N 95, D 79, Ja 80, F 88, Ma 86, Ap 81, My 78, Je 95, Jl 79, Au 94, S 82
Marks....O 46, N 102, D 98, Ja 101, F 102, Ma 103, Ap 105, My 101, Je 104, Jl 103, Au 102, S 103
Tread Thinness at Joint, Cause of..... O 3
Trees, How to Grow High Yielding Rubber ..... O 10

PAGES

Trolley Cars, Rubber Quiets..... S 61
Truck, Lifting, in Rubber Plants, The.. Je 60
Tubes and Footwear, Factice in..... N 68
Tubing Machine, An Historic..... Ma 71
Rubber, A Clamp for *Harold W. Batchelor* Je 78

U

UNITED STATES—
Rubber Co., General Laboratories.... My 92
Manufacturing Industry of the *E. G. Holt* D 58
Plantations ..... O 10
Specification Rubber Goods..... Ap 91

V

Variability of Ceylon Rubber Grades.... N 73
Variation of Color in Carbon Black *C. R. Johnson* F 65
Varnish, A Chlorinated Rubber..... N 73
Velvetex ..... Au 93
Veneer Board, Rubber..... Jl 55
Cases ..... N 95, Jl 92
Vibrations, Removing Machinery..... My 61
Viscosimeter, Dipping..... Ja 71

VOGT, W. W.—
Value of the Rubber Hydrocarbon in Reclaim ..... Ma 74
Vulcanite, Removal of Dried Ink from.. Je 86
Vulcanization, Fatty Acids on *G. Stafford Whitby and B. A. Evans* Jl 73
Nature of, The (Part III) *Henry P. Stevens* Au 73
Triple Reaction in..... F 66

VULCANIZERS—
Continuous Tunnel Kiln..... My 66
English Watch Case Tire..... My 78
Inner Tube Mold..... N 89
Watch Case....*Joseph Rossman* Jl 67, Au 69
Vulcanizing and Steel Making..... F 76
Reclaim, Effect of Sulphur *R. E. Cartlidge and H. L. Snyder* Ma 73

W

Waddle, G. A.....*Portrait and Sketch* Ap 89
Wagner, C. E.....*Portrait and Sketch* S 85

WARNER, R. M.—
Seven Years' Experience with a Mill Room Testing Laboratory..... O 5
Washed Rubber, Brazilian..... My 96
Waste Rubber, Direct Uses of *Joseph Rossman* Ma 60
Watch Case Vulcanizers..*Joseph Rossman* Jl 67
Water Cure Process for Inner Tubes, Laursen ..... D 66
Cured Tires Important Advancement in Tire Manufacture ..... Ja 66
Drinking Systems for Rubber Mills.. Au 65
Waterbags, Eliminating Air from..... Ap 65
Waterhouse, F. T. P.*Portrait and Sketch* Ap 93
Waxing to Retard Aging..... N 73

WEISS, A. J. AND G. B. L. SMITH—
Certain Aryl-Substituted Biguanides.. Ap 75
Wellman Co., The.....Au 68
What is a Rubber Plantation Worth?..... N 65
Wheel Diameter for Balloon Tires..... D 78
Front, Alinement on Tire Wear, Effect of ..... F 72
Whitby, G. S.....*Portrait and Sketch* Jl 93

WHITBY, G. STAFFORD AND B. A. EVANS—
Fatty Acids on Vulcanization..... Jl 73

WHITE, FRANK L. AND A. F. HARDMAN—
Some Accelerator Characteristics as Revealed by Coefficients of Vulcanization ..... O 18
White Gutta ..... Ma 96
Rubber Darkens, Why.....Ap 116
Williams, Charles H. *Portrait and Sketch* Ja 87

WINKELMANN, H. A.—
New Developments with Dispersed Rubber ..... Jl 53

WINKELMANN, H. A. AND E. G. CROAKMAN—
Pigment Reenforcement of Reclaim.. Ma 73
World Engineering Congress..... Jl 92
World's Rubber Position..... Ma 108
Wrapping System, Improved Hose..... F 67

Y

Yachts, Motor, Shudder-Proofing..... D 63

Z

ZIMMERMAN, ERLE C. AND R. W. BROWN—
Rubber Hardness Tester..... Ma 74
Zinc Carbonate..... N 73

Ja=Jan.; F=Feb.; Ma=March; Ap=April; My=May; Je=June; Jl=July; Au=August; S=Sept.; O=Oct.; N=Nov.; D=Dec.